Docket No.: Q190-US1

1 ABSTRACT

A negative electrode for use in secondary battery with nonaqueous electrolyte having a high voltage and energy density and a superior cycle property, characterized in that the active material comprises composite carbon materials containing massive ball-shaped graphite particles, carbon fibers, and graphite flakes. The massive ball-shaped graphite particles provide porosity to the composite, the carbon fibers improve packing density, conductivity, and stiffness to prevent the body made thereof from swelling and decomposing, and the graphite flakes reduce friction in the mixture. An aqueous, non-fluorine-containing binder is used, along with a titanium negative substrate.